

**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A vacuum suction system, comprising  
a vacuum leak generation part,  
a vacuum generation mechanism connected to the vacuum leak generation part, and  
a vacuum level adjustment mechanism connected to the vacuum leak generation part,  
including a negative pressure sensor to detect a vacuum level of the vacuum leak generation  
part, and an adjustment part to adjust the vacuum level of the vacuum leak generation part  
based on a signal from the negative pressure sensor,

wherein the vacuum leak generation part includes a table base disposed on a side of  
the vacuum generation mechanism, a vacuum suction channel, a conveyor table rotatably  
mounted on the table base, and a plurality of work receiving openings penetrating through  
the conveyor table for receiving works therein, the work receiving openings being spaced  
apart from each other and arranged in a circular pattern,

each work receiving opening being disposed inwardly or outwardly relative to the  
vacuum suction channel,

each work receiving opening being connected to the vacuum suction channel through  
a minute sectional suction channel provided on the conveyor table,

each of the minute sectional suction channels has an axis extending in a direction that  
is orthogonal to an axis of the corresponding work receiving opening, and ~~having a cross-~~

sectional area that is smaller than that extends from the corresponding work receiving opening to a point that is only part way across the vacuum suction channel in a width direction of the vacuum suction channel, thereby providing a pressure resistance when the vacuum generation mechanism is operated,

the negative pressure sensor detecting the vacuum level of the work receiving openings of the conveyor table, and

the adjustment part adjusting the vacuum level of the work receiving openings,

wherein the vacuum level adjustment mechanism includes a compressed air generation source for generating a compressed air,

wherein the adjustment part is adapted to jet out the compressed air from the compressed air generation source to the vacuum leak generation part based on the signal from the negative pressure sensor, and

wherein the adjustment part jets out the compressed air based on the signal from the negative pressure sensor when the vacuum level rises above a maximum negative pressure, and stops the compressed air when the vacuum level falls below a minimum negative pressure,

the maximum negative pressure being determined by an increased work load rate, and the minimum negative pressure being determined by a decreased work load rate,

wherein the minimum and maximum negative pressures are pressures which are less than atmospheric temperature,

wherein the minimum negative pressure is closer to the atmospheric pressure than the maximum negative pressure, and the maximum negative pressure is a lower absolute pressure than the minimum negative pressure.

2-6. (Cancelled)

7. (Currently Amended) A method of controlling a vacuum suction system, comprising

a vacuum leak generation part,

a vacuum generation mechanism connected to the vacuum leak generation part, and

a vacuum level adjustment mechanism connected to the vacuum leak generation part for adjusting a vacuum level of the vacuum leakage generation part, and including a negative pressure sensor to detect the vacuum level of the vacuum leak generation part, a compressed air generation source, and an adjustment part,

wherein the vacuum leak generation part includes a table base disposed on a side of the vacuum generation mechanism, a vacuum suction channel, a conveyor table rotatably mounted on the table base, and a plurality of work receiving openings penetrating through the conveyor table for receiving works therein, the work receiving openings being spaced apart from each other and arranged in a circular pattern,

each work receiving opening being disposed inwardly or outwardly relative to the vacuum suction channel,

each work receiving section being connected to the vacuum suction channel through a minute sectional suction channel provided on the conveyor table,

each of the minute sectional suction channels has an axis extending in a direction that is orthogonal to an axis of the corresponding work receiving opening, and ~~having a cross-sectional area that is smaller than that~~ extends from the corresponding work receiving opening to a point that is only part way across the vacuum suction channel in a width direction of the vacuum suction channel, thereby providing a pressure resistance when the vacuum generation mechanism is operated,

the negative pressure sensor detecting the vacuum level of the work receiving openings of the conveyor table, and

the adjustment part adjusting the vacuum level of the work receiving openings,

the method comprising the steps of:

generating a vacuum in the vacuum leakage generation part by the vacuum generation mechanism,

detecting the vacuum level of the vacuum leak generation part by the negative pressure sensor of the vacuum level adjustment mechanism, and

jetting out a compressed air from the compressed air generation source to the vacuum leak generation part by the adjustment part of the vacuum level adjustment mechanism based on a signal from the negative pressure sensor,

wherein the adjustment part jets out the compressed air based on the signal from the negative pressure sensor when the vacuum level rises above a maximum negative pressure,

and stops the compressed air when the vacuum level falls below a minimum negative pressure,

the maximum negative pressure being determined by an increased work load rate, and the minimum negative pressure being determined by a decreased work load rate,

wherein the minimum and maximum negative pressures are pressures which are less than atmospheric pressure.

wherein the minimum negative pressure is closer to the atmospheric pressure than the maximum negative pressure, and the maximum negative pressure is a lower absolute pressure than the minimum negative pressure.

8. (Cancelled)

9. (Previously Presented) A method of controlling a vacuum suction system according to the method of claim 7, wherein,

the adjustment part jets out the compressed air intermittently based on the signal from the negative pressure sensor when the vacuum level rises above the maximum negative pressure.

10. (Previously Presented) A vacuum suction system according to claim 1, wherein the vacuum level of the work receiving openings is securely stabilized by an operation of the

adjustment part regardless of the work load rate of the work receiving openings, the increased work load rate, or the decreased work load rate.

11. (Previously Presented) A vacuum suction system according to claim 1, wherein the minute sectional suction channel provides a pressure resistance.

12. (Previously Presented) A method of controlling a vacuum suction system according to the method of claim 7, wherein the vacuum level of the work receiving openings is securely stabilized by an operation of the adjustment part regardless of the work load rate of the work receiving openings, the increased work load rate, or the decreased work load rate.

13. (Previously Presented) A method of controlling a vacuum suction system according to the method of claim 7, wherein the minute sectional suction channel provides a pressure resistance.